User Manual

WIB2 for PC/USB

CE

NAVTEX-receiver on 518kHz in English language and
on 490 kHz in national language

This manual contains important information for correct using of this device.
Please read this instruction carefully before start-up.

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An liability for the correctness of the contents of this publication cannot be taken over.

In spite of careful processing and programming a defect and/or complete failure of the WIB2 can not be completely excluded. Due to atmospheric disturbances or to disturbances of other electrical and electronic devices, contents of messages can be falsified. The operators of the transmitting plants can change or stop the broadcasting service (temporarily or permanent).

Therefore no liability for availability and correctness of the indicated messages are taken over. In particular no liability for possible damages resulting from use of the WIB2 and information of this manual will be taken over.

In this manual trademark, trade-names, customer-names, etc. are used. Even if these are not particularly characterized, the appropriate protection regulations are effective.

Note

Software updates for this product are available in the Internet:
http://www.wetterinfobox.com/english/Downloads.htm

Contents

Scope of delivery

The following parts belong to the scope of delivery of the WIB2:

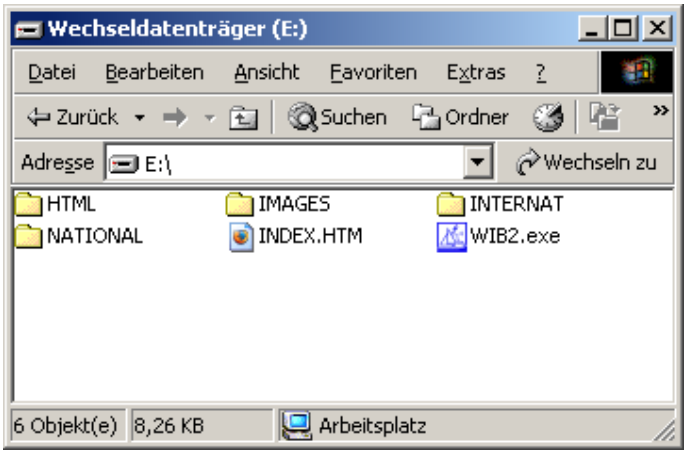
- 1 x WIB2,
- 1 x USB-cable,
- 3 x NiMH rechargeable batteries AAA, 800mAh (are placed inside the device).

Introduction

The WIB2 is a dual-frequency NAVTEX-receiver for the board PC. The device receives simultaneously NAVTEX-messages on medium wave frequencies 518 kHz (international, English) and on 490 kHz (national, national language).
The device will be connected to the PC via a USB- interface. It is simular to a USB-memory-stick and appears as a new storage-medium on the PC. The NAVTEX-messages are stored in the storage-medium in HTML-format. Therefore there is no additional software installation on the PC necessary. The existing Web-Browser will be used to show the data.
An antenna installation is not necessary, since the WIB2 is equipped with an internal ferit rod antenna.
The WIB2 is equipped with rechargeable batteries (3 x NiMH, Typ AAA), which are recharged via the USB-bus. The batterie-capacity lasts for approx. three days of operation without PC.

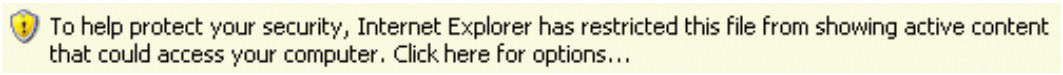
Start-up

After you have attached the WIB2 to your board computer, a new USB storage medium (variable storage medium) will be avialable. In this storage- medium you will find the file INDEX.HTM.



By double-clicking on this file your Web-Browser will be opened and will show you the contents of the WIB2. On the left side of your Web-Browser you will see the menu-structure. The NAVTEX-messages will be sorted automatically according to the message type. With a mouse-click on the appropriate message-identification the message will be opened.
As Windows-user you can save time by opening the file INDEX.HTM, if you copy the program WIB2.EXE from the WIB2 folder on your desktop.

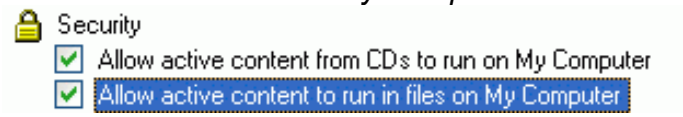
If you do so, you can open the Web-Brower with the contents of the WIB2 by double-clicking on the program. If you use Windows XP, SP2 you will get possibly the following hint:



Additionally the menu-structure on the left side in the Web-Browser will not be completely displayed.

To solve this problem follow the steps below:

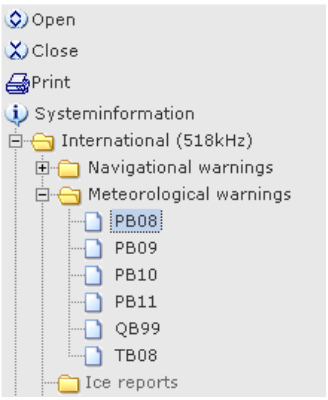
1. From Internet Explorer, select menu *Tools*, then *Options*...
2. In the Internet Options dialog, select *Advanced* tab...
3. Scroll down until you see the security options. Enable the checkbox *"Allow active content to run in files on My Computer"*.



4. Close the dialog with the *OK* Button and quit Internet Explorer. The changes will take effect next time after starting the Internet Explorer.

Now the data of the WIB2 will be displayed correctly in the Internet Explorer.

Menu-structure / message-administration



The NAVTEX messages are sorted according to the message-type into the menu-structure on the left side. In this case the station identification are insignificant. Both received frequencies, international (518 kHz) and national (490 kHz) have their own menu tree. The menu-administration ensures that messages, stored in the WIB2 for longer than two days and have not been received again, are deleted automatically. In the folder "Remaining messages" all messages are sorted, which do not fit into one of the other folders. This can take place either via a transfer error on the airway, or via an extension with an unknown message-identification.

The following table contains an overview of the message-types:

Code	Message-type	Menu-option
A	Navigational warnings	Navigational warnings
B	Meteorological warnings	Meteorological warnings
C	Ice reports	Ice reports
D	Search and rescue information	Search and rescue information
E	Meteorological forecasts	Meteorological forecasts
F	Pilot service messages	Pilot service messages
G	Information about DECCA-navigational-system	Electronic navaid messages
H	Information about LORAN-navigational-system	Electronic navaid messages
J	Information about GPS-navigational-system	Electronic navaid messages
K	Information about other navigational systems	Other messages
L	Additional navigational warnings (i.e. ring-moves)	Additional warnings
V	Other navigational warnings (i.e. ring-list)	Remaining messages
W	Reserved for special service	Remaining messages
X	Reserved for special service	Remaining messages
Y	Reserved for special service	Remaining messages
Z	QRU (there are no messages)	Remaining messages

In the menu-structure on the left side some additional functions are accommodated. They are briefly explained in the following table:

Function	Meaning
Open	Opens the entire menu-structure
Close	Closes the entire menu-structure.
Print	Prints a message.
Help	Opens the user-manual.
Navareas	Shows an overview of the NAVAREAS.
Systeminformation	Systeminformation will be shown (i.e. battery- capacity).

The structure of a NAVTEX-message

The structure of a NAVTEX-message is to be explained on the basis of following example:

```
ZCZC PA09
NETHERLANDS COASTGUARD
NAVIGATIONAL WARNING NR. 9 172128 UTC AUG
PLATFORM L10-G  53-29.4N 004-11.7E
UNLIT
NNNN
```

Each NAVTEX- message begins with the letters ZCZC, followed by the message identification (PA09). The first letter of the message identification serves the master station for the identification. In this case it is NETHERLANDS COASTGUARD (P).

In the second letter the kind of message is coded, here navigational warning (navigation warnings). The last two numbers of the message identification (09) are a serial-number. The number 00 has a privileged position. It is reserved for distress messages.

NAVTEX messages have a time stamp. It is shown at the end of the third line (172128 UTC August) and means: 17. August, 21:28 UTC. The time stamp refers to the date, the message was produced and not to the time of the radiant transmission. Afterwards the message content follows. The message ends with NNNN.

Operating instructions

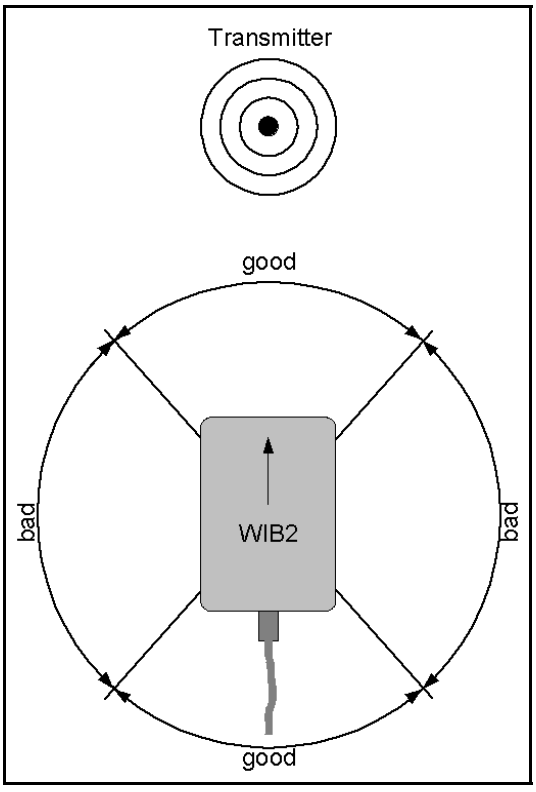
Environment

Please use the equipment only in the interior and dry environment. Do not expose the equipment in use to temperatures higher than 50°C and lower than 0°C.

Switching the WIB2 on & off

The WIB2 has no operating controls. The device is switched on when it is attached to a PC. It switches off automatically, if the internal battery is empty. Thus it is guaranteed that the battery does not become deep-discharged.

Hints to radio reception



The internal ferrite rod antenna of the WIB2 has a directionality. For good reception the equipment must be operating flat lying.
With small distance to the transmitter the directionality of the antenna will become hardly noticeable. The range of the bad receipt (see illustration) is hardly to be determined.
With increasing distance from the transmitter the directionality of the antenna will become more visible. In this case the WIB2 must be aligned to the transmitter for a good receipt.
Electromagnetic interferences can impair the receipt. This can occur due to e.g. computer, electronic navigation equipment, fluorescent lamps, inverters, battery chargers, generators, electric motors, high voltage transmission lines etc.
Therefore the equipment should be positioned as far away as possible from this equipment.

The receipt can be impaired also by atmospheric disturbances (e.g. Thunderstorms).

The transmission method for NAVTEX-messages (Sitor) permits a reduced recognition and correction of transfer errors. Characters, which were not received correctly, will be shown by the WIB2 as an underlined (_). It can occur nevertheless that also normally represented Characters are

incorrect. Steal and/or aluminium yachts are like Faraday's cages. Therefore is to be counted that there is only an insufficient receipt.

Rechargeable batteries

The WIB2 contains three NiMH rechargeable batteries, type AAA with a capacity of 800 mAh. The batteries are recharged via the USB-interface of the PC. Fully recharged batteries last in use for approx. three days.
The battery-management of the WIB2 always provides for optimally recharged batteries, so you don't have to pay attention about the recharging of the batteries. If you do not want to use the WIB2 for a longer period (longer than one year), it is meaningful to take out the batteries in full-recharged condition out of the device and to replace them when needed. Pay particular attention to the correct polarity.

If you want to exchange the batteries, use only fast-rechargeble NiMH batteries, type AAA with a capacity of min. 800 mAh.

Suitable rechargeable batteries are i. e.:

Ansmann AAA-NiMH 800mAh,
GP GP80AAAH,
Sanyo HR-4U.

Used up batteries must duly be disposed and do not belong into domestic-waste.

Operational status indicators

The WIB2 has two light emitting diodes (LEDs), which have the following meaning:

LED	Lights	Meaning
Red LED	Steady light	Operation via PC, the batteries are completely recharged
	Flashes evenly	Operation via PC, batteries are rechargeing
	Short flash	Battery-operation
	Off	Device has been switched off
Green LED	Steady light	A new message is received

Specifications

Receipt-frequency	518 kHz and 490 kHz
PC-interface	USB Full Speed, socket mini-B 5-pin
Rechargeable battery	3 x NiMH batteries, type AAA, 800mAh
Power input in battery-operation	10 mA
Battery-operation period	Approx. 3 days
Power input USB	Max. 450 mA when rechargeing, otherwise 15mA
Battery-recharge-time	2-3 hours
Operating temmperature	0...50°C
Supported operating systems	Windows ME, 2000, XP, Linux, Mac OS
Memory	762 KB flash-memory
Antenna	Inserted ferrite rod antenna
Dimensions (LxWxH)	Approx. 90mm x 57mm x 23mm

Weight	107g without cable

For inside use only.

Accesories

12 / 24 Volt recharge adapter for WIB2 Item-No.: 38153
Continuous operations on board are possible, independently of the PC.
Cigarette lighter plug with USB socket for charging of the internal batteries via 12 V electrical systems. Usable with the USB-cable contained in the scope of supply.
230 Volt recharge adapter for WIB2 Item-No.: 38154
Nylon bag for WIB2 Item-No.: 38160
NAVTEX translation-support English-German Item-No.: NÜ

Warranty

If the WIB2 exhibits a defect due to production or material defects within 24 months starting from the purchase date, it is either repaired by us or exchanged free of charge against appropriate equipment.
To wearing parts (e.g. housing, batteries, etc.) the warranty applies for six months starting from purchase date. The warranty does not apply, if the defect is caused on inappropriate treatment or neglection of the manuals.

A receipt of the warranty voucher with purchase date is required.

Devices with a crossed out dustbin label have to disposed in the European Union via a separate garbage collection at a suitable collective places for the recycling of electric and electronic devices.
